



Picture shows TEC 33 N10 mounted on valve.

## **O V E R V I E W**

- *The TEC 33 N10 Electronic Diaphragm Valve Controller offers a simple and versatile alternative to using complex multi-point valve controllers and is absolutely ideal where a low cost, low maintenance system is required. Designed to operate on a single valve, the unit is extremely simple to operate and only involves setting duration & interval using the dual potentiometers on the front of the unit. The TEC 33 N10 incorporates a special manual test button to allow settings and effective operation to be checked whenever needed, two LED indicators on the upper panel allow viewing of the units running status (ON/OFF). Designed to function over a wide range of voltages (24V to 240V AC or DC 50/60Hz) the unit supports many power supply options and does not require any specialist electrical knowledge to install. Manufactured with a rugged ABS housing to IP65 specifications, the TEC 33 N10 ensures fault-free operation in all weather conditions.*

**Circuit Control Technology Ltd.**  
**Omni House, Sheene Road**  
**Gorse Hill Industrial Estate**  
**Beaumont Leys, Leicester, LE4 1BF**  
**Tel: +44 (0) 116 2998000**  
**Fax: +44 (0) 116 2998001**  
**e-mail: [info@circuitcontroltechnology.com](mailto:info@circuitcontroltechnology.com)**

## **Contents**

|                                 |          |
|---------------------------------|----------|
| <b>Overview</b>                 | <b>1</b> |
| <b>Features</b>                 | <b>2</b> |
| <b>Technical Specifications</b> | <b>3</b> |

# Features

## EASY INSTALLATION

- Multi-voltage operation and the compact enclosure ensure installation in minutes and without the need for electricians or specially trained engineers.

## TWO SIMPLE CONTROLS

- Duration time (20 to 300 MSec) and Interval time (.5 to 45 Min) may be altered by simply adjusting the dual potentiometers on the front of the unit. Setup requires no specialist knowledge or complicated adjustments.

## MANUAL TEST BUTTON

- Allows testing of current settings and unit operation at the simple press of a button.

## ZERO MAINTENANCE

- The simplicity of the unit and it's rugged weather-proof housing ensure extremely reliable performance. Routine maintenance, often required by more cumbersome systems is totally unnecessary with the TEC 33 N10 which is guaranteed maintenance free and 100% cost effective.

## MULTI-VOLTAGE OPERATION

- The TEC 33 N10 offers extreme versatility when it comes to input supply. Due to the wide variation of possible locations and power sources that might be available on site, the unit has been designed to suit as many configurations as possible. Available options are: 24V to 240V AC or DC 50/60Hz.

## RUGGED ABS HOUSING

- The TEC 33 N10 has been designed to function in the harshest of environments, this is acheived by employing the highest quality components and a rugged ABS Housing conforming to the latest IP65 specifications. The unit will operate perfectly from as low as -10 up to greater than +40 degrees centigrade without loss of operating efficiency.

## FULLY AUTOMATIC

- Once set up, the TEC 33 N10 needs no further attention and will continue to operate effectively for as long as required without adjustment or monitoring.
- Twin LED's on the front of the unit offer a visible indication that the unit is operating.



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# Technical Specifications

|                                  |   |
|----------------------------------|---|
| <b>UNIT:</b>                     | Part Number TEC 33 N10.   |
| <b>INPUT SUPPLY:</b>             | 24 to 240 VAC/DC +-10% 50/60Hz.   |
| <b>CURRENT CONSUMPTION:</b>      | 4mA MAXIMUM .   |
| <b>OPERATING TEMP:</b>           | -10 to 40 Deg C (derated operation to 70 Deg C)                               |
| <b>ENVIRONMENTAL PROTECTION:</b> | IP 65 NEMA 4 (when installed).  |
| <b>SWITCH CAPACITY:</b>          | 1 A.  |
| <b>INRUSH CURRENT</b>            | 10A for 10 ms.  |
| <b>SWITCH HOLDING VOLTS:</b>     | 400V.   |
| <b>SWITCH LIFE:</b>              | 3 E 8 operations.   |
| <b>REPEAT ACCURACY:</b>          | +1%.  |
| <b>TIMING/TEMP COEF:</b>         | +5% per Deg C.  |
| <b>SCALE ACCURACY:</b>           | +10%.   |
| <b>CASE MATERIAL:</b>            | ABS Plastic FR grade.   |
| <b>CIRCUIT BOARD:</b>            | To UL 94 VO.  |
| <b>CONNECTION:</b>               | DIN 43650A ISO 4400/6952.   |
| <b>INDICATORS:</b>               | 1 LED (yellow) to indicate ON phase.<br>1 LED (yellow) to indicate OFF phase. |
| <b>DESIGN STANDARD:</b>          | VDE 01 10 C.  |

**CCT reserve the right to change product specifications at any time with out prior notification and as a consequence of on-going product development.**